

Abstract:

A customizing pack carrier having one or a combination of independently unique and novel components comprising a pack retaining main frame, an extendible support base, a quasi-permanent height-adjustable column, a single-handed operating method for adjusting retaining means, an amusing accessory that can double as a strap lifting apparatus, a provision for a seat, an ergonomically designed back support, a shoulder harness, and a one-piece clasping article for connecting tubes side by side, is provided.

The main frame comprises of an assembly of elongated or planar members having one or more of rotary, clamping and other temporarily retaining means arranged fixedly or adjustably along its face to approximate as closely as possible the attachment means affixed on a pack. The frame can be adapted for use with wheeled means on ground, on bikes, and on scooters.

The extendible base comprises of slidably related front and back sections effected by various means, namely: a) a self-adjusting tensile force exerted on a base--encased elongated elastic member, b) a user-controlled member acting on a flexing button both in the same section of the base capable of being fixedly lodged in and dislodged from any one of several in a row of indentations disposed on another section.

The quasi-permanent height-adjustable column comprises of a control rod receivable inside a small tube receivable inside a larger tube. One or more positioning members disposed along length of the control rod is made communicable by the user to at least one of several height-defining apertures inside the small tube and consequently to a terminal cavity on the larger tube.

The single-handed height-adjusting method comprises of the use of a catching extension behind the positioning member of a snap button in a first tube. A second tube receivable inside the first tube delivers a means for the catching extension to latch on when the positioning member is depressed.

The amusing accessory and strap lifting apparatus comprise of a low resisting extendible outer layer for an extendible column attached to said column by its top and bottom terminals and optionally having several points of attachment to a connector that is linked to a pack's shoulder straps.

The carrier may be converted to a backrest when equipped with a seat that is retained behind the load when not in use. The main frame is inclined by collapsing the front legs, providing a hinge connection between the main frame and base, or by allowing the base to rock.

The padded back support attaches to a main frame and to a detached backpack and may include a lumbar support, waist belts, backpack harness, flaps and pockets.

The shoulder harness comprises of a pair of padded straps having pack carrier attachment means at each of their terminals.

The one-piece clasp article comprises of three tubular frames permanently fastened to each other capable of enveloping a pair of tubes urged inside through the same opening.

FOR THE RECORD